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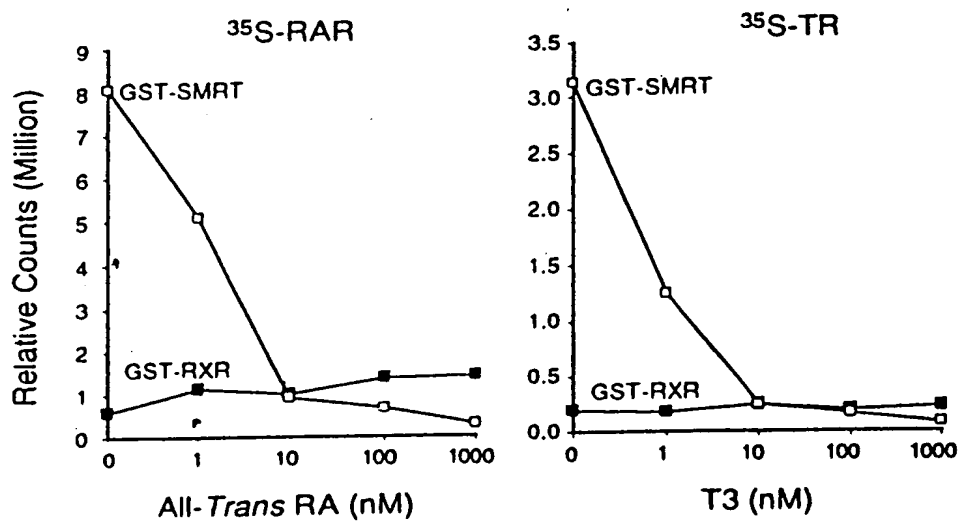


FIGURE 1

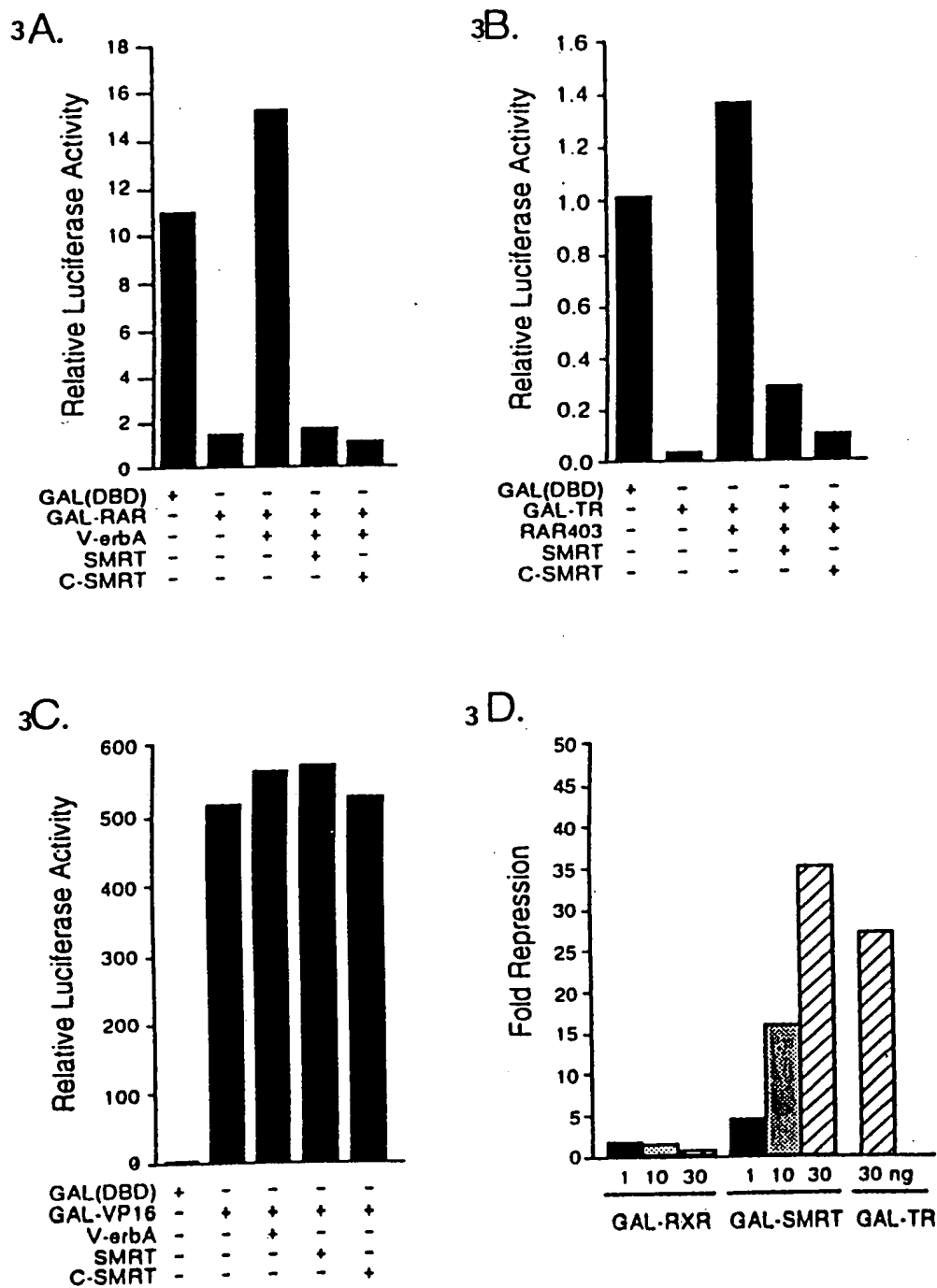


FIGURE 3

[illegible]

FIGURE 4

000703:03/22560

5 A

```

1  MSKTLWVTPHATKSTYHLSVQVLRNTAKLLD--HKNVSPSPNII 50  SSQSLSSG  60  ERLHLEKGYLRLKNSPEPT  70  ERFEEELLPFLP--PSKLAQQA---- h-SMT
2  MSKTLWVTPHATKSTYHLSVQVLRNTAKLLD--HKNVSPSPNII 50  SSQSLSSG  60  ERLHLEKGYLRLKNSPEPT  70  ERFEEELLPFLP--PSKLAQQA---- h-CoR
131  QSLTSLSTLLEW  140  EEPHICDPELEA  150  ERLHLEKGYLRLKNSPEPT  160  ERFEEELLPFLP--PSKLAQQA---- h-SMT
139  QSLTSLSTLLEW  140  EEPHICDPELEA  150  ERLHLEKGYLRLKNSPEPT  160  ERFEEELLPFLP--PSKLAQQA---- h-CoR
270  ERLHLEKGYLRLKNSPEPT  280  ERFEEELLPFLP--PSKLAQQA---- h-SMT
279  ERLHLEKGYLRLKNSPEPT  280  ERFEEELLPFLP--PSKLAQQA---- h-CoR
410  ERLHLEKGYLRLKNSPEPT  420  ERFEEELLPFLP--PSKLAQQA---- h-SMT
418  ERLHLEKGYLRLKNSPEPT  420  ERFEEELLPFLP--PSKLAQQA---- h-CoR
549  ERLHLEKGYLRLKNSPEPT  559  ERFEEELLPFLP--PSKLAQQA---- h-SMT
553  ERLHLEKGYLRLKNSPEPT  559  ERFEEELLPFLP--PSKLAQQA---- h-CoR
679  ERLHLEKGYLRLKNSPEPT  689  ERFEEELLPFLP--PSKLAQQA---- h-SMT
692  ERLHLEKGYLRLKNSPEPT  689  ERFEEELLPFLP--PSKLAQQA---- h-CoR
919  ERLHLEKGYLRLKNSPEPT  929  ERFEEELLPFLP--PSKLAQQA---- h-SMT
924  ERLHLEKGYLRLKNSPEPT  929  ERFEEELLPFLP--PSKLAQQA---- h-CoR
957  ERLHLEKGYLRLKNSPEPT  967  ERFEEELLPFLP--PSKLAQQA---- h-SMT
960  ERLHLEKGYLRLKNSPEPT  967  ERFEEELLPFLP--PSKLAQQA---- h-CoR
1095  ERLHLEKGYLRLKNSPEPT  1105  ERFEEELLPFLP--PSKLAQQA---- h-SMT
1090  ERLHLEKGYLRLKNSPEPT  1105  ERFEEELLPFLP--PSKLAQQA---- h-CoR
1130  ERLHLEKGYLRLKNSPEPT  1140  ERFEEELLPFLP--PSKLAQQA---- h-SMT
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1357  ERLHLEKGYLRLKNSPEPT  1367  ERFEEELLPFLP--PSKLAQQA---- h-SMT
1359  ERLHLEKGYLRLKNSPEPT  1367  ERFEEELLPFLP--PSKLAQQA---- h-CoR
1490  ERLHLEKGYLRLKNSPEPT  1500  ERFEEELLPFLP--PSKLAQQA---- h-SMT
1422  ERLHLEKGYLRLKNSPEPT  1432  ERFEEELLPFLP--PSKLAQQA---- h-CoR
1618  ERLHLEKGYLRLKNSPEPT  1628  ERFEEELLPFLP--PSKLAQQA---- h-SMT
1594  ERLHLEKGYLRLKNSPEPT  1604  ERFEEELLPFLP--PSKLAQQA---- h-CoR
1757  ERLHLEKGYLRLKNSPEPT  1767  ERFEEELLPFLP--PSKLAQQA---- h-SMT
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2008  ERLHLEKGYLRLKNSPEPT  2018  ERFEEELLPFLP--PSKLAQQA---- h-SMT
1932  ERLHLEKGYLRLKNSPEPT  1942  ERFEEELLPFLP--PSKLAQQA---- h-CoR
2148  ERLHLEKGYLRLKNSPEPT  2158  ERFEEELLPFLP--PSKLAQQA---- h-SMT
2064  ERLHLEKGYLRLKNSPEPT  2074  ERFEEELLPFLP--PSKLAQQA---- h-CoR
2278  ERLHLEKGYLRLKNSPEPT  2288  ERFEEELLPFLP--PSKLAQQA---- h-SMT
2200  ERLHLEKGYLRLKNSPEPT  2210  ERFEEELLPFLP--PSKLAQQA---- h-CoR
2416  ERLHLEKGYLRLKNSPEPT  2426  ERFEEELLPFLP--PSKLAQQA---- h-SMT
2337  ERLHLEKGYLRLKNSPEPT  2347  ERFEEELLPFLP--PSKLAQQA---- h-CoR

```

5 B

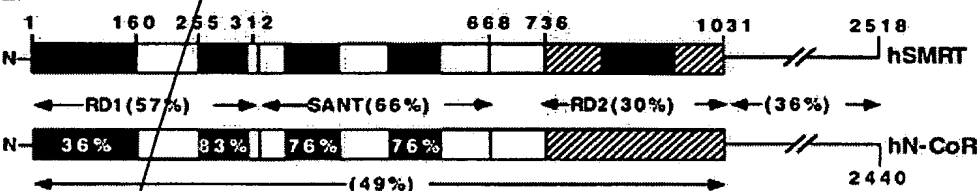
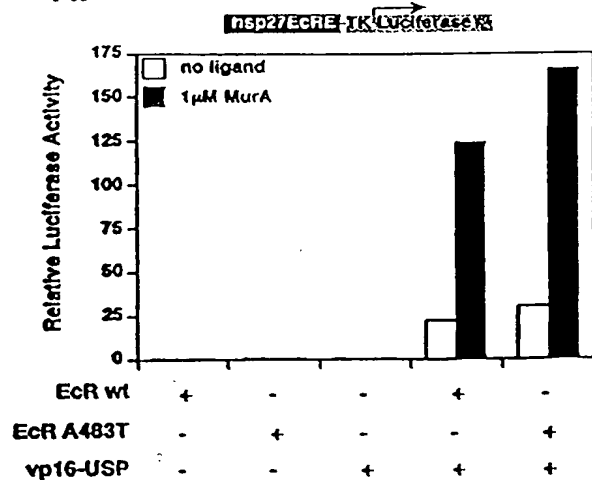
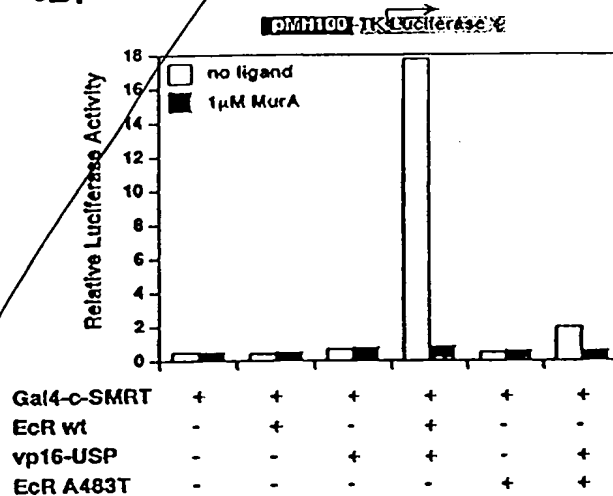


FIGURE 5

6A.



6B.



6C.

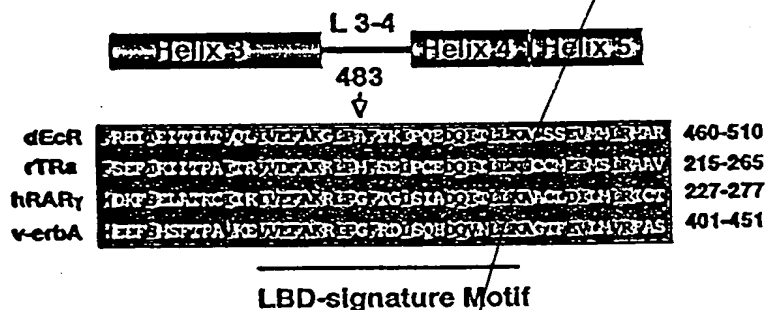


FIGURE 6

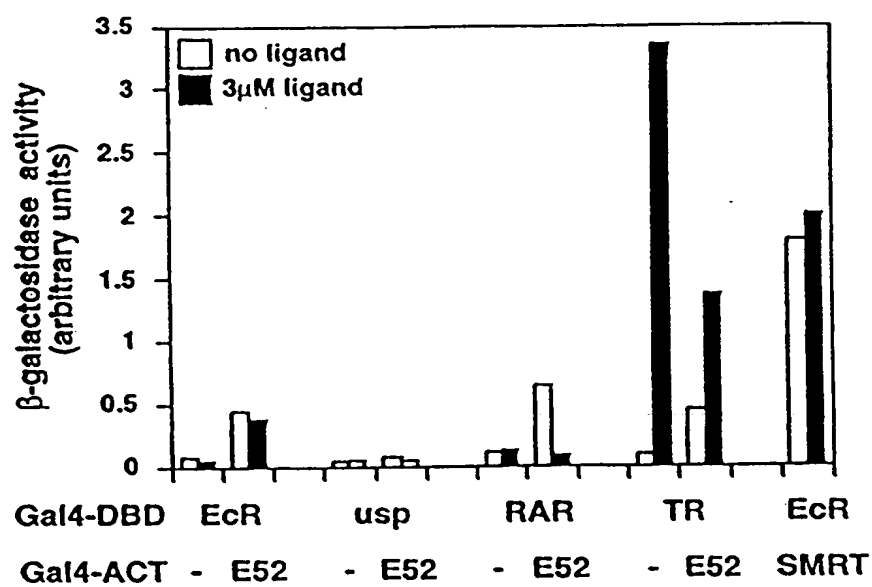


FIGURE 7

8A.

```

1 MSAYQQLRPSNAASIHSPHWSTRALEQQQQYAKQAAHLQQQQHQSHQQQQQQQQDQRTNLHLQIHQHHQQQQQQQQQQ 80
81 QQQQQQQQQQQQQQQQQQQQQQQPLSPHPHPCSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS 160
161 HRFIQNTGYSIAPAPTYTRDNPTSRHTIQQQQQQQQQQQQQQQQQQQQQQQQQQAAAAAMPEYQRAAAAAAANAASAGKGNVS 240
241 GQSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS 320
321 AGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 400
401 EANANNNNNLPPHPPQQHQQQQQQQQQQHQRSSPAQVQQQQQQQQMSSSRQSHNDMCRQVVTTPMGMQLKVETLPQQQQKQ 480
481 QHQQQQQQQQQGGRSQPVVSSMSTVVSQPVQTVTTAGLSASSSSSSGNVAAGLQTCNTGSSASTEAYHPQVEAISPTLPS 560
561 DSSIEERORTSAKEDLLMOIQVNDKSAETTYETLRKKEKSLMEERAAAKEORAAKEINNNNDQEPHYELSWRSQML 640
641 AEKYYAANRKTAAQHSMLONAADESSPGSVAGRPPLPLYNQPLDVEALAMLIRHOSQITRAPLLLIHTRKKAERHAHN 720
721 QGLVEKYTKDQADMRRCERMEASAKRKAREAKNREFFKVFTELKOREDKERFNRVGSRLKSEADLEEIMDGLQEOAL 800
801 EDKMRSSYAVIPLMHDAORRCAYHNENGLIEMVAVHQQKALNNMTAGEKETTKYLOHPRKNTGALIAASLDRKSEFQ 880
881 DCVRYXLLSKKTENYKQLLRKSQRTRSSRNPAKAAQAPQCIIDSMTTGVMTRLQREQQQKSGGRSSSAVNERERAERAA 960
961 ZRERVAKAAADAASAKASAAKASAAATKAVEATAAGEKVAKAAAAAAATTTATTTTSSSTSSSSSSSSSSSSSSSS 1040
1041 SSTASPATLGAIAADKTAGKTASASDENAATAGGPTATGPTAATTPATATAPPEISAGGEAKSKNAEEAAATAGATA 1120
1121 VATAQTPATGASAAAGEATTATGATATAAAGVGKPEETATEPAGTAAGGADSRPDANDPLAKTASKAINAEGYNAIGGN 1200
1201 SSSSSSNATGASAPVQGVTLNGFKPGYQTVVMAHVKASTGGDSSGANAQGAAPGSLAATHASIASGDKIVKTTTPSSRAP 1280
1281 NSTSSSTAAHSSSSGAGVHTYGTATATAGNYLQQLKAAQVEGLGAGNELSDVSESEKRRFELNSGEAGGATSAWTHSS 1360
1361 TSGSMNISNSHQLKANAKDQSHAKTSMATSSASVVVTSTPSASSSLSSASMLLISAAVSMSTAAGATSSSTATTTA 1440
1441 TASAIELPLADGSGNSVMMAKELIALDQDKLASCFVCAEACPRTRPLKKGQQQYQIPDETIPAGARVCNCSQCKSV 1520
1521 RSRTPNCPLEPTCPNPKDRAQLRNLTPSLFLPLAEPVRDPLMAEPQIEPHATRCCSACLAGIRIRKLDPLQLNLTDGSSGGAG 1600
1601 SSGGGDETDTVSTSSCDEREPOGSDTASVLSPEKLRKESLTMVKQQQQQQQQQQQQQQQQQQQQQQQQQQQQLSQPFPFPAPQ 1680
1681 QKSSSGROGDDQFTLLIITPTMSSEKSGSQQAQTAGDNERLLPPAQAQAPKKQKTSEYDSSATETADEENHSPANRQSP 1760
1761 KVLFGHGQGHGCHAHNVAGLPPFVAMGTGGVQPOGAAQQVWQPIHMRREAVHNVQDCVFSVIERSLKHKGFQPKQ 1840
1841 QQQQQQQQQQQQQQQQQQQQTPQSQSPSQQQQQQQQQQSAHLEKELTIVREYRQDPQILKQQQQQQQAGGAPPTSAGASL 1920
1921 PHGTSVQKLTTTFAAFAVPPFAHPLTPTSIQAGSHRGTSDSLATLSVHSHHGMVQIGHPOPMARASSAGQIGVIXATI 2000
2001 TPVVKSSSSSSSSSSSSSSSSSTATPPETIITVFPVAPQRGIFPPQHSVHPFAHPSHTQHPAHQSSSHGHTQLQVFE 2080
2081 FEPQTLDLSTKKEPPRGGSPETGAGSSSSSGSGSGGPPSSDRHGGFPPTTMSKHKIVRSOGMYRGDTVTVPSLAAPSSTL 2160
2161 YPTRSVKISGGGGVVGVLPGVPLALQLPVPVFEVPIISISQQQLPFPKAGQPPFAQPPSGRGVAVVPEKLSPOQAHLH 2240
2241 PSHGHSFSSQQQQQQQQQQQQQQQAAAAQQQLLVKSGSLIHGTANSAAQQIIVHAPATAAAPPSSLSFSPKFDGLVRGTT 2320
2321 FEGVGVSGPGAGSGSGKGSITGGTLENNPHELESKUPTESTYKSSQRHSFAQQPGGQQQLPFPFPQSSSPQAPPFPQYG 2400
2401 VGVSSPYARSPFAGVVEQPQLSTROKYMHYXTSOHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ 2480
2481 VGSAGFPATGGKESAPRGPETSSRAFPADHVNSTPSPERTFPFQRRQGVQIRHMTGSKFPFAAPPSPRHHNFPYQAP 2560
2561 SGHDALASFVDVAVQQLFVPSQKDDKSPGSTAPQGVVPGSGPFLGSPFLPFAVVGVAQPPPTAHEDQKRTDLTLHH 2640
2641 BHRTLQQQLIAQQHYSLSLVAQVDMQRQMDQAKRVHRHQHQVQQQQQQQQQQQQHMLERDRMQERMQERDRERER 2720
2721 RERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERERER 2800
2801 RSIPDRERESYTRQAGGAPEDTTPQQLSAQSLIDAIKKHEINRSDATAGPREFRPSFVHAFLPPRSGSGGGGTOTR 2880
2881 SSPANVLPHYLRLDLQPLDQAGSM/TAENNGKPSSSGSPSVINIDLQERTSAAAMVACQQQQQAPFPSSSSSSSS 2960
2961 HCRLETTTSGGSHAPFPQDITKSTTGGTDSLTITDYGTHHAPDPAHATQETUSILPDPHMKQNRMOOKAKKA 3040
3041 NDSQQQQQQQQQQQQHQAQQQQQQQQHQAQQHPPQMPGTSAGSAPGAGCQQQQSGGPGSGGAGGAASTPGEDGRNHR 3120
3121 QAVBPRKNNHSMILHVMOTTAQCCAGQVPLDPRVPLPEORGTSSGQQAAPGAGGSGGGAATITVATRAVH 3200
3201 IDIDYGNKNTVAVVDESTADVAHGAAYHAARVAHAARVAHAAMCLOHRSKEPPPPKISVERKNTPRQYHWDN 3280
3281 RRSAGSSVSVEYVQANSRHSYTHPPALYESTYAYBALNVEGACGLPPEOPLQDEQAVAPGAAKAKAAHALS 3360
3361 ELGAVGGCVSLVVGSGSGGIAQGPQGVSVGVVPGGQPGSGGGGGGGHSSSSSSQASAAVAAAATAASESKPLLLSKYD 3440
3441 ALSDP*

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8B.

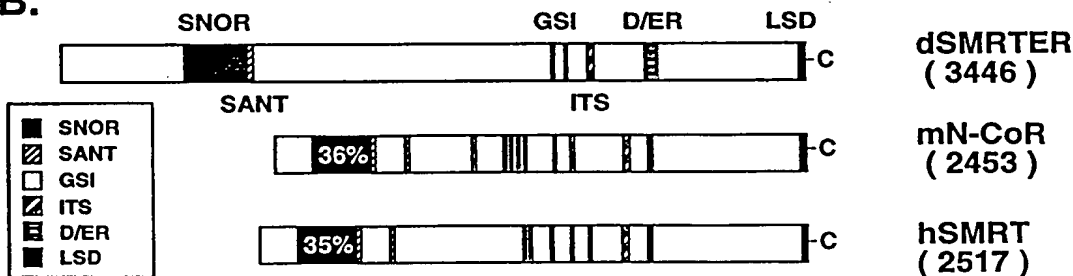


FIGURE 8

| Year | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | |

SANT domain

ITS motif

GSI motif

LSD motif

FIGURE 9

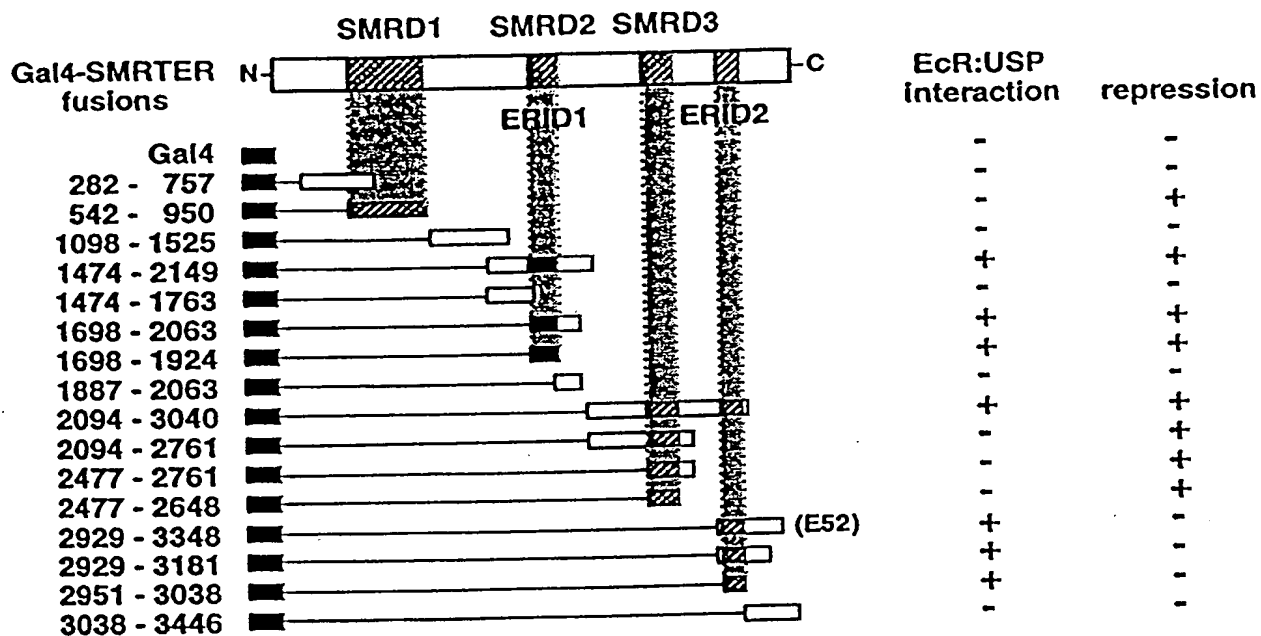
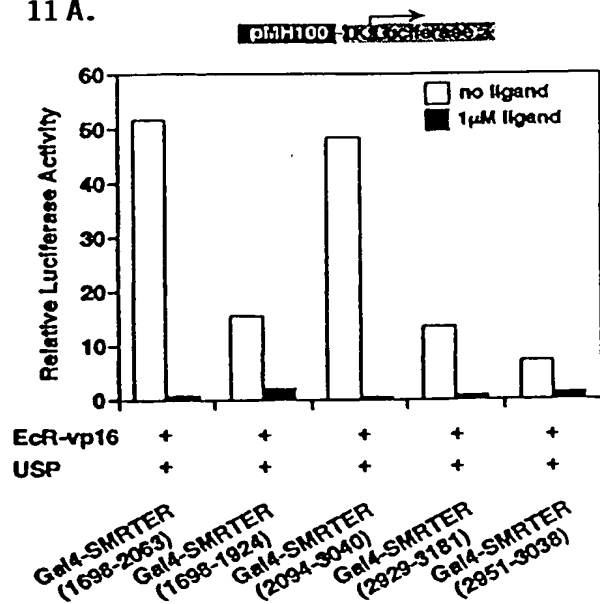
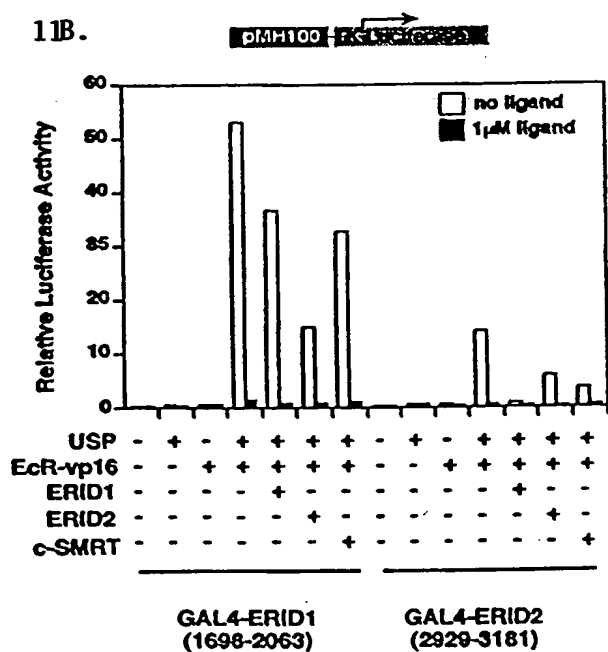


FIGURE 10

11 A.



11B.



11C.

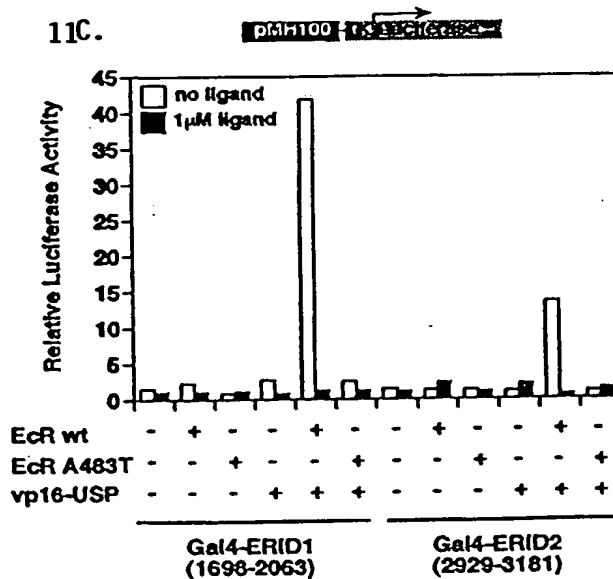
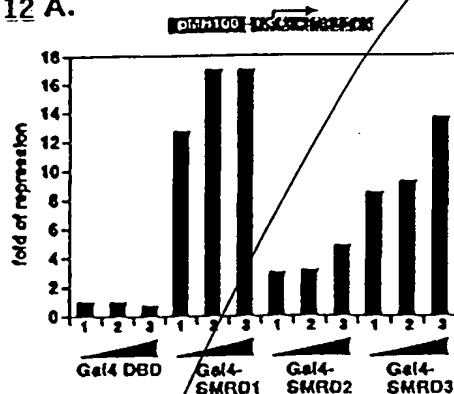
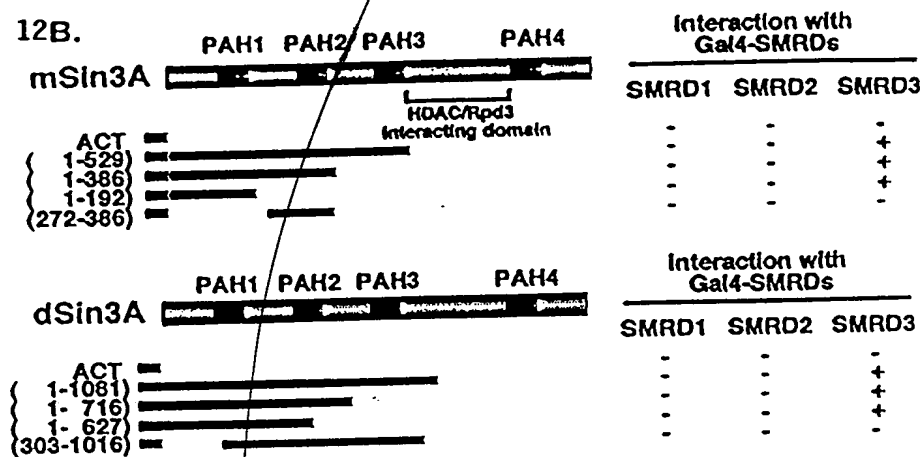


FIGURE 11

12 A.



12B.



12C.

SMRTER: 2564 **DATA** **AF** **VD** **AV** **Q** **Q** **Q** **P** **L** **P** **S** **Q** **K** **D** **P** **K**
 N-CoR: 1835 **DATA** **AL** **VD** **AA** **SA** **P** **Q** **H** **D** **V** **S** **K** **T** **K** **E** **S** **K**

α-helix

M2 M3

dSin3A Interaction - -

mSin3A Interaction - -

* → G

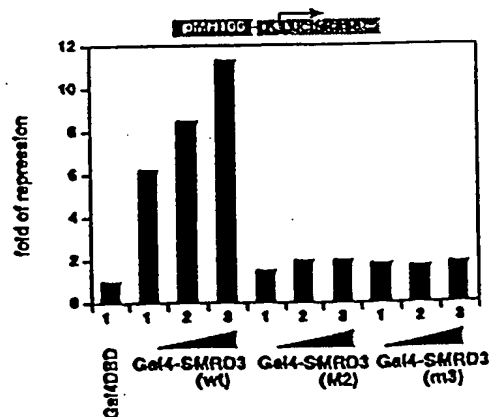


FIGURE 12